

CLAIMS

1. A percutaneous drainage catheter, comprising:
a tubular member 50 having a drainage lumen 52 extending from a
5 proximal end and a distal end; and
a retention member 56 formed around the tubular member 50 and is
adapted to move between a low-profile state facilitating insertion of the drainage
catheter and a high-profile state facilitating retention of the drainage catheter in a
body cavity,
10 wherein the tubular member 50 and the retention member 56 operate to
seal and tamponade an access tract in the body cavity.
2. The percutaneous drainage catheter of claim 1, wherein the retention
member 56 is disposed at the distal end of the tubular member 50.
3. The percutaneous drainage catheter of claim 1, wherein the retention
member 56 is a soft conforming balloon.
4. The percutaneous drainage catheter of claim 1, wherein the tubular
member 50 and the retention member 56 in the low-profile state have a diameter
of about 8 Fr – 10 Fr.

5. The percutaneous drainage catheter of claim 1, wherein the retention member 56 may be expanded to about 30 Fr in the high-profile state.

6. The percutaneous drainage catheter of claim 1, wherein the drainage lumen 52 or additional lumen provide for drainage of urine, passage of a guidewire, and infusion of liquids.

7. The percutaneous drainage catheter of claim 1, wherein the proximal end of the tubular member 50 protrudes minimally from the body cavity.

8. The percutaneous drainage catheter of claim 1, further comprising an inflation passage 58 to actuate the retention member 56 from the low-profile state to the high-profile state after placement of the distal end of the tubular member
5 50 in the body cavity.

9. The percutaneous drainage catheter of claim 8, wherein the inflation passage 58 maintains pressure in the retention member 56 for prolonged periods of time of up to several weeks.

10. The percutaneous drainage catheter of claim 1, further comprising a foam bolster 68 around the proximal end of the tubular member 50.

5 11. The percutaneous drainage catheter of claim 10, wherein the foam bolster 68 may be slightly compressed upon placement of the tubular member 50 to provide a spring force against the retention member 56 in the access tract and to help maintain consistent position of the tubular member 50.

 12. The percutaneous drainage catheter of claim 1, wherein the tubular member 50 is configured for percutaneous nephrolithotomy.

 13. The percutaneous drainage catheter of claim 1, wherein the tubular member 50 is configured for suprapubic drainage application.

 14. The percutaneous drainage catheter of claim 1, further comprising a drainage portion 54 having at least one drainage port providing external access for bladder contents via the drainage lumen 52.

 15. The percutaneous drainage catheter of claim 14, wherein the drainage port includes a Luer-lock connection.

 16. The percutaneous drainage catheter of claim 15, further comprising a drainage bag attachable to the Luer-lock connection.

17. The percutaneous drainage catheter of claim 1, wherein the tubular member 50 comprises a soft, silicone material including a radiopaque material to enhance visualization of the catheter.

18. The percutaneous drainage catheter of claim 8, wherein the inflation passage 58 is connected to a pump or syringe to individually and independently inflate and deflate the retention member 56.

19. The percutaneous drainage catheter of claim 1, further comprising a connector hub 62 at the proximal end including a port 64 and an access lumen plug 66.

20. The percutaneous drainage catheter of claim 19, wherein the access lumen plug 66 provides easy draining of the body cavity.

21. The percutaneous drainage catheter of claim 19, wherein the access lumen plug 66 is formed from a soft, silicone material including a radiopaque material.

22. The percutaneous drainage catheter of claim 19, wherein the access lumen plug 66 operates like a snap-on plug.

23. The percutaneous drainage catheter of claim 1, wherein the drainage catheter is used in a veterinary application.

24. The percutaneous drainage catheter of claim 23, wherein the body cavity is that of an animal.

25. A percutaneous drainage catheter, comprising:

a tubular member 50 having an access lumen 52 extending longitudinally and a drainage portion 54 having at least one drainage port; and

5 a retention member 56 formed proximally to the tubular member 50 and is adapted to move between a low-profile state facilitating insertion of the drainage catheter and a high-profile state facilitating retention of the drainage catheter in a body cavity,

10 wherein the tubular member 50 and the retention member 56 operate to seal and tamponade an access tract in the body cavity.

26. The percutaneous drainage catheter of claim 25, wherein the retention member 56 is a soft conforming balloon.

27. The percutaneous drainage catheter of claim 25, wherein the access lumen 52 or additional lumen provide for drainage of urine, passage of a guidewire, and infusion of liquids.

28. The percutaneous drainage catheter of claim 25, wherein the drainage port includes a Luer-lock connection.

29. The percutaneous drainage catheter of claim 28, further comprising a drainage bag attachable to the Luer-lock connection.

30. The percutaneous drainage catheter of claim 25, further comprising a connector hub 62 at a proximal end of the tubular member 50 including a port 64 and an access lumen plug 66.

31. The percutaneous drainage catheter of claim 30, wherein the access lumen plug 66 provides easy draining of the body cavity.

32. The percutaneous drainage catheter of claim 30, wherein the access lumen plug 66 operates like a snap-on plug.

33. The percutaneous drainage catheter of claim 25, wherein the drainage catheter is used in a veterinary application.